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## PATENT CASE IN01155K

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For: Macrocyclic NS3-Serine Protease Inhibitors of Hepatitis C Virus Comprising

Alkyl and Aryl Alanine P2 Moieties

Assistant Commissioner for Patents Washington, D.C. 20231

## INFORMATION DISCLOSURE STATEMENT

Sir:

It is requested that the following documents cited in the application, as listed below and in the accompanying form PTO-1449, be considered and made of record.

## Documents cited in the Application:

U.S. 5,712,145 WO 89/04669 WO 98/17679 WO 98/22496 WO 99/07734 WO 00/09558 WO 00/09543 EP 381 216

## Publications:

Failla et al. (1996) Folding & Design 1:35-42
Kollykhalov et al. (1994) J. Virol. 68:7525-7533
Komoda et al. (1994) J. Virol. 68:7351-7357
Landro et al. (1997) Biochem. 36:9340-9348
Ingallinella et al. (1998) Biochem. 37:8906-8914
Llinàs-Brunet et al. (1998) Bioorg. Med. Chem. Lett. 8:1713-1718
Martin et al. (1998) Biochem. 37:11459-11468
Dimasi et al. (1997) J. Virol. 71:7461-7469
Martin et al. (1997) Protein Eng. 10:607-614
Elzouki et al.) (1997) J. Hepat. 27:42-48
BioWorld Today 9(217): 4 (November 10, 1998)
Berenguer et al. (1998) Proc. Assoc. Am. Physicians 110(2):98-112
Hoofnagle et al. (1997) N. Engl. J. Med. 336:347

R. Zhang et al, Analytical Biochemistry, 270 (1999) 268-275

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K. Barlos et al, Int. J. Pept. Protein Res., 37 (1991), 513-520

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S. Agrawal et al, "Development and Characterization of Hepatitis C Virus Serine Protease Cell-based Trans-Cleavage Assay", Hepatology Supplement to Volume 30 (No. 4, Part 2, October 1999), Abstract No. 615 (Proceedings of AASLD 50th Annual Meeting, Dallas, Texas, November 5-9, 1999.

L. Hughes, Org. Reactions, 42 (1992) 335.

R. F. Heck, Org. Reactions, 27 (1989) 345-390.

The submission of these documents is not to be presumed as an admission that these documents are prior art. The documents are being furnished solely for their possible utility in the examination of the present case. Since no Office Action has issued on the merits of this case, Applicants believe that no fee is due at this time. If, however, any fees are due, the Office may charge such fees to Deposit Account No. 19-0365.

If the Examiner has any questions, the Examiner is invited to contact the undersigned.

August 6, 2001 Schering-Plough Corporation 2000 Galloping Hill Road Patcnt Department, K-6-1,1990 Kenilworth, NJ 07033

Tel: (908) 298-5068 Fax: (908) 298-5388

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as First Class Mail in an envelope addressed to Assistant Commissioner for Patents, Washington, D.C. 20231 on

Palaiyur S. Kalyanaraman

Respectfully submitted,

Attorney for Applicants Reg. No. 34,634

August 6, 2001

Palaiyur S. Kalyanaraman

Registered Representative

Signature and Date of Signature

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April 17, 2001	To Be Assigned C	>

Sheet 1

SERIAL NO.: 09/836,636

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS CLASS SUB-DOCUMENT DATE NAME FILING DATE IF **EXAMINER CLASS** APPROPRIATE NUMBER INITIAL U.S. 5,712,145 AA AB FOREIGN PATENT DOCUMENTS DOCUMENT DATE COUNTRY CLASS SUB-TRANSLATION CLASS YES NO NUMBER AC WO 89/04669 WO 98/17679 ΑD ΑE WO 98/22496 WO 98/07734 ΑF AG | WO 00/09558 AH WO 00/09543 EP 381 216 ΑI ΑJ ΑK OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) AL Pizzi, (1994) Proc. Natl. Acad. Sci(USA) 91:888-892 -AM Failla (1996) folding & Design 1:35-42 AN Kollykhalov (1994) J. Virol. 68:7525-7533 -AO | Komoda (1994) J. Virol. 68:7351-7357,... AP Landro (1997) Biochem 36:9340-9348 · AQ Ingallinella (1998) Biochem 37:8906-8914 • AR Llinas-Brunet (1998) Bioorg. Med. Chem. Lett, 8:1713-1718 • AS Martin (1998) Biochem 37:11459-11468 -AT Dimasi (1997) J. Virol. 71:7461-7469 • ΑU Martin (1997) Protein Eng. 10:607-614 · Elzouki (1997) J. Hepat. 27:42-48 .  $AV^-$ Bio World Today 9(217): 4 (November 10, 1998) AW I AX Berenguer (1998) Proc. Assoc. Am. Physicians 110(2): 98-112 AY | Hoofnagle (1997) New England Journal Med. 336:347 • Zhang (199) Analytical Biochemistry 270:268-275 Sali (1998) Biochemistry 3392-3401 BA Barlos (1991) Int. J. Pept. Protein Res 513-520 · вв Holmberg (1979) Acta Chem. Scand., B33:410-412> BC Agrawal(1999) Hepatology Supplement to Vol 30 "Development and Characterization of Hepatitis C Virus Serine Protease Cell-based Trans-Cleavage Assay" .

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

DATE CONSIDERED

Hughes (1992) Org. Reactions 42:335

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**EXAMINER**